

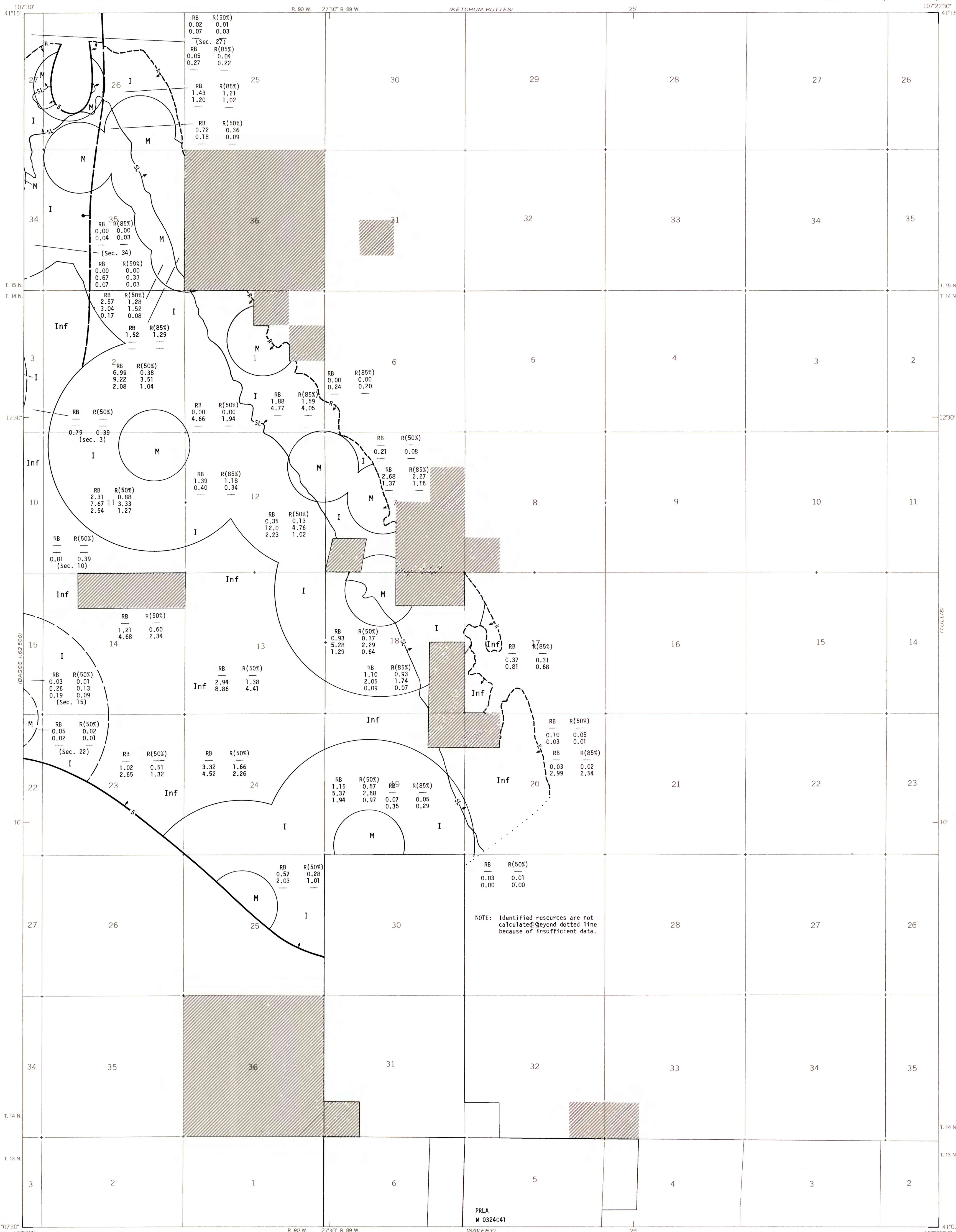
100°07'30" W  
107°30' W  
107°22'30" W

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

BROWNS HILL QUADRANGLE  
WYOMING-CARBON CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-1034

PLATE 13 OF 29



#### EXPLANATION

NON-FEDERAL COAL LAND - Land for which the Federal Government does not own the coal rights.

AREA OF PREFERENCE RIGHT LEASE APPLICATION (PRLA) ON FEDERAL LAND - Showing PRLA number.

ISOPACH - Showing thickness of coal, in feet. Arrow points toward area where coal bed is 5 feet or more thick.

R - Robertson

COAL BED SYMBOL AND NAME

TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed as listed above. Arrow points toward coal-bearing area. Short dashed where inferred by present authors.

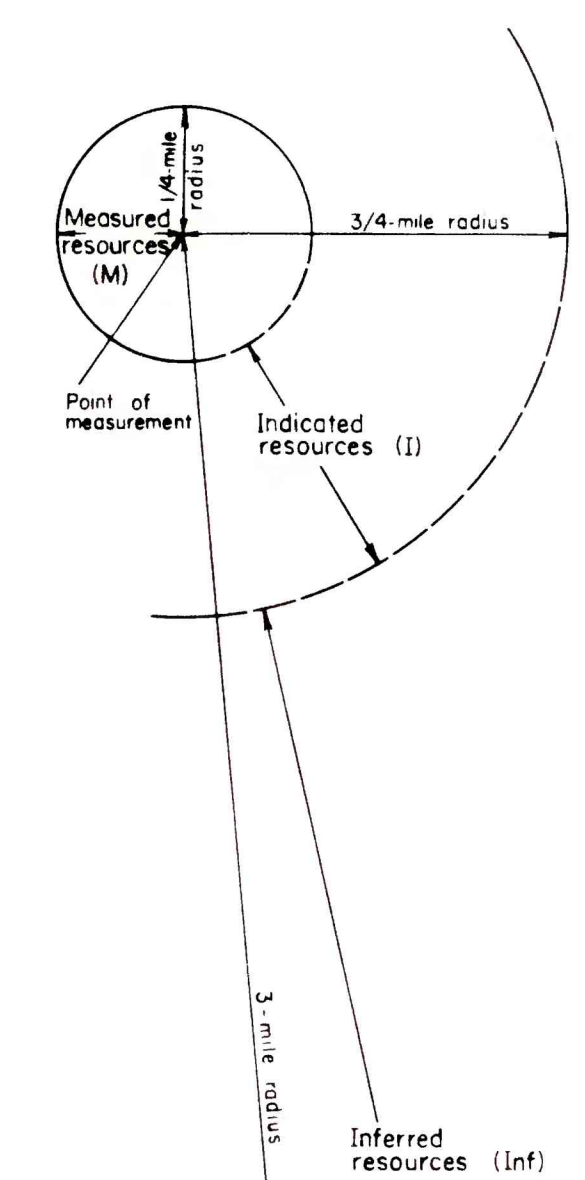
STRIPPING-LIMIT LINE - Boundary for surface mining (in this quadrangle, the 200-foot-overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 85 percent, and away from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50 percent.

RB	R(85%)	RB	R(50%)
2.68	2.27	—	—
1.37	1.16	0.21	0.08

(Measured)  
(Indicated)  
(Inferred)

IDENTIFIED COAL RESOURCES - Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Dash indicates no resource in that category. Reserves have been calculated for a constant thickness of 12 feet for areas where the coal beds are more than 12 feet thick. Therefore, in some instances, underground Reserves may be less than 50 percent of the Reserve Base.

TRACE OF FAULT - Bar and ball on down-thrown side. Dashed where inferred or approximately located.



BOUNDARY LINES - Enclosing areas of measured (M), indicated (I), and inferred (Inf) coal resources. Dashed where projected from adjacent quadrangles.

To convert feet to meters, multiply feet by 0.3048.

To convert short tons to metric tons, multiply short tons by 0.9072.

To convert miles to kilometers, multiply miles by 1.6093.

This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.

# COAL RESOURCE OCCURRENCE MAP OF THE BROWNS HILL QUADRANGLE, CARBON COUNTY, WYOMING BY DAMES & MOORE 1979

PLATE 13  
AREAL DISTRIBUTION  
AND IDENTIFIED RESOURCES  
MAP OF  
THE ROBERTSON COAL BED